Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

BLUE RIDGE REGIONAL OFFICE
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Matthew J. Strickler
Secretary of Natural Resources

David K. Paylor
Director
(804) 698-4000

Robert J. Weld
Regional Director

April 21, 2020

Mr. Clint Lipscomb
Mill Manager
Greif Packaging, LLC
P.O. Box 339
Amherst, VA 24521

Location: Amherst County
Registration No.: 30549

Dear Mr. Lipscomb:

Attached is a significant modification to your Title V permit to operate your facility pursuant to 9VAC5 Chapter 80 Article 1 of the Virginia Regulations for the Control and Abatement of Air Pollution. The attached permit will be in effect beginning April 21, 2020

In the course of evaluating the application and arriving at a final decision to issue this permit, the Department of Environmental Quality (DEQ) deemed the application complete on February 10, 2020 and solicited written public comments by placing a newspaper advertisement in the *Lynchburg News & Advance* on March 6, 2020. The thirty-day required comment period, provided for in 9VAC5-80-270 expired on April 6, 2020.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and/or civil charges. Please read all permit conditions carefully.

This permit approval to operate shall not relieve Greif Packaging, LLC of the responsibility to comply with all other local, state, and federal permit regulations.

To review any federal rules referenced in the attached permit, the US Government Publishing Office maintains the text of these rules at www.ecfr.gov, Title 40, Parts 60 and 63.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to you. Please consult the relevant regulations for additional requirements for such requests.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal of this decision by filing a Notice of Appeal with:

David K. Paylor, Director
Department of Environmental Quality
P. O. Box 1105
Richmond, VA 23218

If this permit was delivered to you by mail, three days are added to the thirty-day period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal and for additional requirements governing appeals from decisions of administrative agencies.

If you have any questions concerning this permit, please contact Lillian Alexander at lillian.alexander@deq.virginia.gov or (540) 562-6850.

Sincerely,

Robert J. Weld
Regional Director

Attachments: Permit and Statement of Basis

cc: Riley Burger, EPA Region III (burger.riley@epa.gov)
Susan Tripp, DEQ Office of Air Permit Programs (OAPP) (susan.tripp@deq.viginia.gov)
Frank Craighead, DEQ BRRO Air Compliance Inspector (electronic)
Todd Asselborn – Environmental Engineer Greif Packaging, LLC
(todd.asselborn@greif.com)

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Federal Operating Permit

Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9VAC5-80-50 through 9VAC5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Greif Packaging LLC
Facility Name:	Greif Packaging LLC
Facility Location:	861 Fibre Plant Road, Riverville, Virginia
Registration Number:	30549
Permit Number:	BRRO-30549

This permit includes the following programs:
Federally Enforceable Requirements - Clean Air Act

November 19, 2006
Effective Date

April 21, 2020
Modification Date

November 18, 2011
Expiration Date

April 21, 2020
Modification Signature Date

Robert J. Weld, Regional Director

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Facility Information

Permittee
Greif Packaging LLC
P.O. Box 339
Amherst, VA 24521

Responsible Official
Scott Lipscomb
Mill Manager

Facility
Greif Packaging LLC
861 Fibre Plant Road, Riverville, VA
Amherst County

Contact Person
Mr. Todd Asselborn
Staff Environmental Engineer
(434) 933-4117

County-Plant Identification Number: 51-009-00022

Facility Description: NAICS 322130 – Greif Packaging, LLC is a manufacturer of semichemical corrugated medium and recycled liner board covered by North American Industry Classification Code (NAICS) 322130. The facility has one semichemical paper machine and one recycled paperboard machine, and associated process equipment. Two natural gas/residual oil boilers, one combination fuel boiler, one chemical recovery boiler, and one natural gas/distillate oil spare boiler provide the steam requirements to the facility.[1]

[1] Greif Packaging LLC submitted a timely and complete application for a Title V Permit renewal therefore the source is operating under a permit shield according to 9VAC5-80-80 F.5 and 9VAC5-80-140.

Emission Units

Process Equipment to be operated consists of:

Significant Emissions Units (See Note 2 for abbreviations)

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description*	PCD ID	Pollutant Controlled	Applicable Permit Date
BLR01	BLRSV01	B&W Package Boiler – North, Fired By Natural Gas and Residual Oil, 1975	224.6 MMBtu/hr	Low NOx Burner, 2000	----	Nitrogen Oxides	4/21/20
BLR02	BLRSV01	B&W Package Boiler – South, Fired By Natural Gas and Residual Oil, 1975	224.6 MMBtu/hr	----	----	----	4/3/73
BLR03	BLRSV03	B&W Package Boiler – Spare, Fired by Natural Gas and Distillate Oil, 1965	100 MMBtu/hr	----	----	----	10/13/00
BLR05	BLRSV05	Foster Wheeler Combination Boiler, Fired by Natural Gas, Wood Residuals, Paper Recycling Residuals (PRR), and primary paper sludge, 2000	292 MMBtu/hr	Research Cottrell Electrostatic Precipitator, 2000	BLRCD05	PM	4/21/20

Woodyard

WDY01	WDYSV01 (fugitive)	Various Woodyard Equipment and Vehicular Traffic	----	----	----	----	4/3/73

Unbleached Pulp Mill

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description*	PCD ID	Pollutant Controlled	Applicable Permit Date
UPM01	BLRSV05	Bauer M&D Digester System, 1975	26 ODTP/hr	NCG Control System in accordance with MACT I	BLR05 (primary) BLR01 or BLR02 (backup)	Total HAP	4/3/73
UPM03	UPMSV03	IMPCO #1 Brownstock Washer, 1975	26 ODTP/hr	----	----	----	4/3/73
UPM04	UPMSV04	IMPCO #2 Brownstock Washer, 1975	26 ODTP/hr	----	----	----	4/3/73
UPM05	UPMSV05	IMPCO #3 Brownstock Washer, 1975	26 ODTP/hr	----	----	----	4/3/73
UPM07	BLRSV05	RECO Combined Condensate Tank / Washer Showers Supply Tanks, 1975 1993	2,830 gal 1,550 gal	NCG Control System in accordance with MACT I	BLR05 (primary) BLR01 or BLR02 (backup)	Total HAP	----

Chemical Recovery

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description*	PCD ID	Pollutant Controlled	Applicable Permit Date
CR01	CRSV01	RECO Weak Liquor Storage Tanks (2), 1975	988,887 gal	----	----	----	4/3/73
CR03	CRSV03	RECO Heavy Black Liquor Storage Tank, 1975	120,132 gal	----	----	----	4/3/73
CR04	BLRSV05	Nash Evaporator Vacuum Pump, 1975	26 ODTP/hr	NCG Control System in accordance with MACT I	BLR05 (primary) BLR01 or BLR02 (backup)	Total HAP	4/3/73
CR04A	BLRSV05	Ultra High Solids Crystallizer, 2003	9.375 TBLS/hr	NCG Control System in accordance with MACT I	BLR05 (primary) BLR01 or BLR02 (backup)	Total HAP	5/30/03
CR05	CRSV05	B&W Recovery Boiler, 1975	11.7 TBLS/hr, 625 gal #6 oil/hr	B&W Dry Bottom 3 Field Electrostatic Precipitator	CRCD05	PM	4/3/73
CR06	CRSV06	RECO Smelt Dissolving Tank, 1975	11.7 TBLS/hr	----	----	----	4/3/73

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description*	PCD ID	Pollutant Controlled	Applicable Permit Date
#1 Paper Machine							
PM01	PMSV01 (fugitive)	RECO #1 Paper Machine HD Storage Tank, 1975	615,628 gal	----	----	----	4/3/73
PM02	PMSV02 (fugitive)	Beloit #1 Paper Machine Wet End, 1975	58 ADTFP/hr	----	----	----	10/23/14
PM03	PMSV03 (fugitive)	Beloit #1 Paper Machine Dry End, 1975	40 ADTFP/hr	----	----	----	4/3/73
#2 Paper Machine							
PM04	PMSV04 (fugitive)	Beloit #2 Paper Machine, including starch silo, 1993	45 ADTFP/hr	----	----	----	5/12/92, as amended 10/5/94 and 2/22/95
Wastewater Treatment Plant							
WWT01	WWTSV01 (fugitive)	Wastewater Treatment Plant, 1975	7.0 MGD	----	----	----	4/3/73

Notes:

1. The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.
2. Abbreviations: ADTFP = Air Dried Ton of Finished Paper; ODTP = Oven Dry Tons of Pulp; TBLS = Tons of Black Liquor Solids

Fuel Burning Equipment Requirements

B&W Package Boiler – North and the B&W Package Boiler – South Requirements

LIMITATIONS

1. **North and South Boiler Limitations**: Nitrogen oxide emissions from the B&W Package Boiler – North (Ref. No. BLR01) shall be controlled by low NOx burners and flue gas recirculation.
(9VAC5-80-110, and Condition 5 of 04/21/2020 Permit Document)

2. **North and South Boiler Limitations**: The approved fuels for the B&W Package Boiler – North (Ref. No. BLR01) and the B&W Package Boiler – South (Ref. No. BLR02) are natural gas and residual oil. Residual oil is defined as fuel oil that meets the specifications for fuel oil numbers 4, 5, or 6 under the American Society for Testing and Materials, ASTM D396 "Standard Specification for Fuel Oils". A change in the fuels may require a permit to modify and operate.
(9VAC5-80-110, and Condition 6 of 04/21/2020 Permit Document)

3. **North and South Boiler Limitations**: The maximum sulfur content of the residual oil to be burned in either the B&W Package Boiler – North (Ref. No. BLR01) or the B&W Package Boiler – South (Ref. No. BLR02) shall not exceed 2.5% percent by weight per shipment.
(9VAC5-80-110 E)

4. **North and South Boiler Limitations**: The B&W Package Boiler – North (Ref. No. BLR01) shall consume no more than 4,000,000 gallons per year of residual oil, calculated monthly as the sum of each consecutive 12-month period.
(9VAC5-80-110, and Condition 7 of 04/21/2020 Permit Document)

5. **North and South Boiler Limitations**: Emissions from the operation of each B&W Package Boiler (i.e., the North boiler (Ref. No. BLR01) and the South boiler (Ref. No. BLR02)) shall not exceed the limits specified below:

Particulate Matter	0.22 lbs/MMBtu
Sulfur Dioxide	592.9 lbs/hr

(9VAC5-80-110, 9VAC5-40-900, and 9VAC5-40-930)

6. **North and South Boiler Limitations**: Visible emissions from the combined stack for the B&W Package Boiler – North (Ref. No. BLR01) and the B&W Package Boiler – South

(Ref. No. BLR02) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by EPA Method 9 (reference 40CFR60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9VAC5-80-110 and 9VAC5-50-80)

7. **North and South Boiler Limitations**: At all times, including periods of start-up, shutdown, soot blowing, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions

   The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to the B&W Package Boiler – North (Ref. No. BLR01) and the B&W Package Boiler – South (Ref. No. BLR02) and control equipment:

   a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.

   b. Maintain an inventory of spare parts.

   c. Have available written operating procedures for the B&W Package Boiler – North (Ref. No. BLR01) and the B&W Package Boiler – South (Ref. No. BLR02) and control equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.

   d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

   Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.
   (9VAC5-80-110 and 9VAC5-50-20 E)

MONITORING

8. **North and South Boiler Monitoring**: At least one time per calendar week, an observation for the presence of visible emissions from the B&W Package Boiler – North (Ref. No. BLR01) and the B&W Package Boiler – South (Ref. No. BLR02) combined stack shall be made. If visible emissions are observed the permittee shall:

   a. take timely corrective action such that the boiler(s) resumes operation with no visible emissions, or,

b. perform a visible emission evaluation (VEE) in accordance with 40CFR60, Appendix A, Method 9 to assure visible emissions from the stack do not exceed 20 percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the 15-second-interval observations exceed 20 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the boiler(s) resumes operation with visible emissions of 20 percent or less.

The permittee shall maintain a log to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, whether or not there were visible emissions, any VEE recordings and any necessary corrective action. If neither of the boilers have been operated during the week, it shall be noted in the log that the boilers were not operated and that a visual observation was not required. (9VAC5-80-110 E.)

RECORDKEEPING

9. **North and South Boiler Recordkeeping**: The permittee shall maintain records of all emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

   a. The annual consumption of residual oil in the B&W Package Boiler – North (Ref. No. BLR01), calculated monthly as the sum of each consecutive 12-month period. (Condition18.b of the 04/21/2020 Permit Document)

      The percent sulfur of the residual oil received, per shipment.

   b. Records of malfunctions of equipment which may cause a violation of any part of this permit.

   c. Operating procedures, maintenance schedules, training, and service records for the B&W Package Boiler – North (Ref. No. BLR01) and the B&W Package Boiler – South (Ref. No. BLR02).

   d. Visual emission log for the B&W Package Boiler – North (Ref. No. BLR01) and the B&W Package Boiler – South (Ref. No. BLR02) combined stack.

   e. B&W Package Boiler – North (Ref. No. BLR01) and the B&W Package Boiler – South (Ref. No. BLR02) operation information, sufficient to calculate annual emissions for each consecutive 12-month period.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five-(5) years.
(9VAC5-80-110)

TESTING

10. **North and South Boiler Testing**: The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time using appropriate methods. Test ports shall be provided when requested at the appropriate locations.
(9VAC5-80-110 and 9VAC5-50-30 F)

REPORTING

11. **North and South Boiler Reporting**: The permittee shall submit written reports in accordance with General Condition 146.
(9VAC5-80-110 F)

B&W Package Boiler – Spare Boiler Requirements

LIMITATIONS

12. **Spare Boiler Limitations**: The approved fuels for the B&W Package Boiler – Spare (Ref. No. BLR03) are natural gas and distillate oil. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society for Testing and Materials "Standard Specification for Fuel Oils." A change in the fuels may require a permit to modify and operate.
(9VAC5-80-110, and Condition 4 of 10/13/00 Permit Document)

13. **Spare Boiler Limitations**: The maximum sulfur content of the distillate oil to be burned in the B&W Package Boiler – Spare (Ref. No. BLR03) shall not exceed 0.5% percent by weight per shipment.
(9VAC5-80-110, and Condition 6 of 10/13/00 Permit Document)

14. **Spare Boiler Limitations**: The consumption of each fuel in the B&W Package Boiler – Spare (Ref. No. BLR03) must be such that each of the following equations are satisfied monthly for each consecutive 12-month period:

a.

$$\frac{(EF_{\#2-NOx} \times A \div 1000\ gal) + (EF_{NG-NOx} \times B \div 10^{6}\ cf)}{2000\ lb / ton} \leq EL_{NOx}$$

where

$EF_{\#2\text{-}NOx}$ = Emission factor for #2 distillate oil, in units of pound of nitrogen oxides per 1000 gallons of #2 distillate oil burned = 20

A = Annual consumption of #2 distillate oil, in units of gallons per year, calculated monthly as the sum of each consecutive 12-month period

$EF_{NG\text{-}NOx}$ = Emission factor for natural gas, in units of pound of nitrogen oxides per million cubic feet of natural gas burned = 140

B = Annual consumption of natural gas, in units of cubic feet per year, calculated monthly as the sum of each consecutive 12-month period

EL_{NOx} = Annual emission limit for nitrogen oxides, given in Condition 15 of this permit, in units of tons per year = 39.4

b.

$$\frac{(EF_{\#2-SOx} \times A \div 1000\ \ gal\ ) + (EF_{NG-SOx} \times B \div 10^{6}\ cf\ )}{2000\ \ lb\ /\ ton} \leq EL_{SOx}$$

where

$EF_{\#2\text{-}SOx}$ = Emission factor for #2 distillate oil, in units of pound of sulfur dioxide per 1000 gallons of #2 distillate oil burned = 71

A = Annual consumption of #2 distillate oil, in units of gallons per year, calculated monthly as the sum of each consecutive 12-month period

$EF_{NG\text{-}SOx}$ = Emission factor for natural gas, in units of pound of sulfur dioxide per million cubic feet of natural gas burned = 0.6

B = Annual consumption of natural gas, in units of cubic feet per year, calculated monthly as the sum of each consecutive 12-month period

EL_{SOx} = Annual emission limit for sulfur dioxide, given in Condition 15 of this permit, in units of tons per year = 39.4

The above equations must be satisfied monthly for each consecutive 12-month period. In no event shall actual emission rates of any pollutant from burning any fuel exceed those rates represented by the emission factors, given above, for each pollutant and fuel. (9VAC5-80-110, and Condition 5 of 10/13/00 Permit Document)

15. **Spare Boiler Limitations:** Emissions from the operation of the B&W Package Boiler – Spare (Ref. No. BLR03) shall not exceed the limits specified below:

Particulate Matter	1.41 lbs/hr	----------
PM-10	0.74 lbs/hr	----------
Sulfur Dioxide	49.98 lbs/hr	39.4 tons/yr

Nitrogen Oxides (as NO_2)	14.08 lbs/Hr	39.4 tons/yr
Carbon Monoxide	8.16 lbs/hr	----------
Volatile Organic Compounds	0.53 lbs/hr	----------

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with the annual emission limits may be determined as stated in Condition 14 and 21.
(9VAC5-80-110, and Condition 8 of 10/13/00 Permit Document)

16. **Spare Boiler Limitations**: Visible Emissions from the B&W Package Boiler – Spare stack (Ref. No. BLR03) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by EPA Method 9 (reference 40CFR60, Appendix A).
(9VAC5-80-110, and Condition 9 of 10/13/00 Permit Document)

17. **Spare Boiler Limitations**: The B&W Package Boiler – Spare (Ref. No. BLR03) emissions shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.
(9VAC5-80-110)

MONITORING

18. **Spare Boiler Monitoring**: The B&W Package Boiler – Spare (Ref. No. BLR03) shall be equipped with a device to continuously measure and record the hourly consumption of each fuel. The monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. The monitoring device shall be provided with adequate access for inspection and shall be in operation when the B&W Package Boiler – Spare (Ref. No. BLR03) is operating.
(9VAC5-80-110, and Condition 3 of 10/13/00 Permit Document)

19. **Spare Boiler Monitoring**: The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:

    a. The name of the fuel supplier;

    b. The date on which the distillate oil was received;

c. The quantity (in gallons) of distillate oil delivered in the shipment; and

d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications for numbers 1 or 2 fuel oil.

(9VAC5-80-110, and Condition 7 of 10/13/00 Permit Document)

20. **Spare Boiler Monitoring**: At least one time per calendar week, an observation for the presence of visible emissions from the B&W Package Boiler – Spare stack (Ref. No. BLR03) shall be made. If visible emissions are observed the permittee shall:

a. take timely corrective action such that the boiler resumes operation with no visible emissions, or,

b. perform a visible emission evaluation (VEE) in accordance with 40CFR60, Appendix A, Method 9 to assure visible emissions from the boiler stack do not exceed 20 percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the 15-second-interval observations exceed 20 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the boiler resumes operation with visible emissions of 20 percent or less.

The permittee shall maintain a boiler log to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, whether or not there were visible emissions, any VEE recordings and any necessary corrective action. If the boiler has not been operated during the week, it shall be noted in the boiler log that the boiler was not operated and that a visual observation was not required.

(9VAC5-80-110 E)

RECORDKEEPING

21. **Spare Boiler Recordkeeping**: The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

a. The amount of each fuel burned in the B&W Package Boiler – Spare (Ref. No. BLR03), per year, calculated monthly as the sum of each consecutive 12-month period.

b. The results of the calculations for nitrogen oxide and sulfur dioxide emissions from the boiler using the equations shown in Condition 14, to demonstrate compliance with the annual emission limits stated in Condition 15, calculated monthly as the sum of each consecutive 12-month period.

c. All fuel supplier certifications.

d. Visual emission log for the B&W Package Boiler – Spare (Ref. No. BLR03).

e. Records of malfunctions of equipment which may cause a violation of any part of this permit.

f. Operating procedures, maintenance schedules, training, and service records for the B&W Package Boiler – Spare (Ref. No. BLR03).

g. B&W Package Boiler – Spare (Ref. No. BLR03) operation information, sufficient to calculate annual emissions for each consecutive 12-month period.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five-(5) years.
(9VAC5-80-110, and Condition 10 of 10/13/00 Permit Document)

TESTING

22. **Spare Boiler Testing**: The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9VAC5-80-110, 9VAC5-50-30, and Condition 11 of 10/13/00 Permit Document)

23. **Spare Boiler Testing**: If the results of the nitrogen oxide emission calculations required in Condition 21.b exceeds 50% of the annual emission limit in Condition 15, then a performance test for nitrogen oxides from the B&W Package Boiler – Spare (Ref. No. BLR03) shall be required within 120 days of the determination of this exceedance to determine compliance with the emission limits contained in Condition 15. If required, this test shall be performed once each five year permit term.

If the results of the sulfur dioxide emission calculations required in Condition 21.b. exceeds 50% of the annual emission limit in Condition 15, then a performance test for sulfur dioxide from the B&W Package Boiler – Spare (Ref. No. BLR03) shall be required within 120 days of the determination of this exceedance to determine compliance with the emission limits contained in Condition 15. If required, this test shall be performed once each five year permit term.

Tests shall be conducted and reported and data reduced as set forth in 9VAC5-50-30, and the test methods and procedures contained in each applicable section or subpart listed in 9VAC5-50-410. The details of the tests are to be arranged with the Blue Ridge Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. Two copies of the test results shall be submitted to the Blue Ridge Regional Office within 60 days after test completion and shall conform to the test report format enclosed with this permit.
(9VAC5-80-110 E)

REPORTING

24. **Spare Boiler Reporting**: The permittee shall submit written reports in accordance with Condition 146.
(9VAC5-80-110 F)

Foster Wheeler Combination Boiler Requirements

LIMITATIONS

25. **Foster Wheeler Combination Boiler Limitations**: Particulate matter emissions from the Foster Wheeler Combination Boiler (Ref. No. BLR05) shall be controlled by an Electrostatic Precipitator (ESP). The ESP shall be equipped with a device for the continuous measurement of primary and secondary current and voltage (by field) across the ESP. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times. The ESP shall be provided with adequate access for inspection.
(9VAC5-80-110, and Condition 1 of 04/21/2020 Permit Document)

26. **Foster Wheeler Combination Boiler Limitations**: Nitrogen oxide emissions from the Foster Wheeler Combination Boiler (Ref. No. BLR05) shall be controlled by low NOx burners for natural gas.
(9VAC5-80-110, and Condition 2 of 04/21/2020 Permit Document)

27. **Foster Wheeler Combination Boiler Limitations**: The approved fuels for the Foster Wheeler Combination Boiler (Ref. No. BLR05) are natural gas, wood residuals, Paper Recycling Residuals (PRR), and Primary Paper Sludge. This condition provides for the combustion of these secondary materials only to the extent they are non-hazardous secondary materials that have been determined not to be solid waste and the permittee maintains documentation required in Condition 38.

    a. "Wood residuals" are defined as wood feed stock, bark, and other left over wood raw materials capable of being hogged. This definition does not include wood contaminated with paints, plastics, finishing material or chemical treatments.

b. PRR is defined as the unreclaimed, non-metal fraction of the site's Old Corrugated Container processing plant. PRR consists primarily of wet paper and plastic and meets either the requirements of 40CFR241.3 for non-hazardous secondary materials that are not solid wastes when combusted, or the requirements of 40CFR241.4 for non-hazardous secondary materials that are not solid wastes when used as a fuel in a combustion unit.

c. Primary paper sludge is defined as dewatered solids consisting of large quantities of fibers, papermaking fillers, or both. The primary paper sludge meets the requirements of 40 CFR 241.4(a)(4) for non-hazardous secondary materials that are not solid wastes when used as a fuel in a combustion unit.

d. A change in the fuels shall be considered a change in the method of operation of BLR05 and may require a new or amended permit. However, if a change in the fuel is not subject to new source review permitting requirements, this condition should not be construed to prohibit such a change.

e. (9VAC5-80-110, and Condition 3 of 04/21/2020 Permit Document)

28. **Foster Wheeler Combination Boiler Limitations**: The Foster Wheeler Combination Boiler (Ref. No. BLR05) shall consume no more than the following amounts of each approved fuel:

natural gas	250 x 10^6 cubic feet per year;
wood residuals	221,223 tons per year; and
PRR	4.8 tons per hour, and 21,000 tons per year.
Primary paper sludge	120 tons per day and 43,800 tons per year

Each annual limit shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110, and Condition 4 of 04/21/2020 Permit Document)

29. **Foster Wheeler Combination Boiler Limitations**: Emissions from the operation of the Foster Wheeler Combination Boiler (Ref. No. BLR05) shall not exceed the limits specified below:

	lb/MMBTU	lbs/hr	tons/yr	
PM	0.085	---		(9VAC5-50-410)
PM10	---	7.35	25.4	
PM2.5	---	7.35	25.4	

Sulfur Dioxide	---	8.40	29.1
Nitrogen Oxides (as NO_2)	---	78.40	271.3
Carbon Monoxide	---	92.40	319.7
Volatile Organic Compounds	---	5.60	19.4

(9VAC5-80-110 and Condition 9 of 04/21/2020 Permit Document)

30. **Foster Wheeler Combination Boiler Limitations**: Visible emissions from the ESP stack on the Foster Wheeler Combination Boiler (Ref. No. BLR05) shall not exceed 10 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 27 percent opacity as determined by the EPA Method 9 (reference 40CFR60, Appendix A). This condition applies at all times except during start-up, shutdown, or malfunction.
(9VAC5-80-110, 9VAC5-50-410, 40CFR60.43b, and Condition 10 of 04/21/2020 Permit Document)

31. **Foster Wheeler Combination Boiler Limitations**: At all times, including periods of start-up, shutdown, soot blowing, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

    The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to the Foster Wheeler Combination Boiler (Ref. No. BLR05) and control equipment:

    a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.

    b. Maintain an inventory of spare parts.

    c. Have available written operating procedures for the Foster Wheeler Combination Boiler (Ref. No. BLR05) and its respective air pollution control equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.

    d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment.. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.
(9VAC5-80-110, 9VAC5-50-20 E, Condition 23 of 04/21/2020 Permit Document)

32. **Foster Wheeler Combination Boiler Limitations:** Except where this permit is more restrictive than the applicable requirement, the Foster Wheeler Combination Boiler (Ref. No. BLR05) shall be operated in compliance with the requirements of 40CFR60, Subpart Db.
(9VAC5-80-110, 9VAC5-50-410, and Condition 8 of 04/21/2020 Permit Document)

33. **Foster Wheeler Combination Boiler Limitations**: - *condition completed* - The portions of the 04/21/2020 permit document to modify the Foster Wheeler Combination Boiler (Ref. No. BLR05) shall become invalid, unless an extension is granted by the DEQ, if:

    a. A program of continuous construction or modification is not commenced within 18 months from 7/19/17.

    b. A program of construction or modification is discontinued for a period of 18 months or more, or is not completed within a reasonable time, except for a DEQ approved period between phases of the phased construction of a new stationary source or project.

    (9VAC5-80-110 and Condition 20 of 04/21/2020 Permit Document)

MONITORING

34. **Foster Wheeler Combination Boiler Monitoring**: A continuous emissions monitoring system shall be installed to measure and record opacity from the ESP stack on the Foster Wheeler Combination Boiler (Ref. No. BLR05). The monitoring system shall conform to the design specifications stipulated in 40CFR60, Appendix B, Performance Specification 1. The monitoring systems shall be installed, maintained, evaluated, calibrated and operated in accordance with 40CFR60.13, 40CFR60 Subpart Db, and 40CFR60, Appendix B. During all periods of boiler operation, the monitoring system shall be in continuous operation except for system breakdowns, repairs, calibration checks, and zero and span adjustments.
(9VAC5-80-110, 40CFR60.48b, and Condition 14 of 04/21/2020 Permit Document)

35. **Foster Wheeler Combination Boiler Monitoring**: The permittee shall conduct opacity monitoring system audits, on a regularly scheduled basis, to demonstrate compliance with the calibration error specification (40CFR60, Appendix B, Performance Specification 1). In no case shall the length of time between audits exceed twelve months. A 30-day notification prior to each scheduled audit shall be submitted to the Blue Ridge Regional Office.
(9VAC5-80-110 and Condition 14 of 04/21/2020 Permit Document)

36. **Foster Wheeler Combination Boiler Monitoring**: The continuous monitoring data generated by the opacity monitor may, at the discretion of the Board, be used as evidence of violation of the emission standards. These data shall be kept on file for the most recent five-(5) years and made available to the Department upon request.
(9VAC5-80-110)

37. **Foster Wheeler Combination Boiler Monitoring**: See condition 131 of this permit, for additional monitoring requirements for the Foster Wheeler Combination Boiler (Ref. No. BLR05).
(9VAC5-80-110 and 40CFR63 Subpart DDDDD)

RECORDKEEPING

38. **Foster Wheeler Combination Boiler Recordkeeping**: The permittee shall maintain records of all emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

    a. The daily and annual consumption for each approved fuel in the Foster Wheeler Combination Boiler (Ref. No. BLR05). Each annual consumption rate shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months
    (40CFR60.49b and Condition 18.a of the 04/21/2020 Permit Document)

    b. Records sufficient to show that PRR is not a solid waste as required by 40CFR60.2175(v)
    (Condition 18.c of the 04/21/2020 Permit Document)

    c. Results sufficient to show that primary paper sludge meets the requirements of 40 CFR 241.4(a)(4)
    (Condition 18.d of the 04/21/2020 Permit Document)

    d. Records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the Foster Wheeler Combination Boiler (Ref. No. BLR05); any malfunction of the air pollution control equipment; and any periods during which a continuous monitoring system or monitoring device is inoperative.
    (Condition 18.e of the 04/21/2020 Permit Document)

    e. Results of all stack tests, visible emission evaluations and performance evaluations
    (Condition 18.f of the 04/21/2020 Permit Document)

f. Records of opacity as required by 40CFR60.49b(f)
(Condition 18.g of the 04/21/2020 Permit Document)

g. Fuel analysis records or supplier certifications sufficient to demonstrate compliance with 40CFR60.49b(r) as it pertains to: (1) gaseous fuels meeting the definition of natural gas in 40CFR60.41b, and (2) certification that only natural gas, wood, and/or other fuels that are known to contain insignificant amounts of sulfur are combusted in the Foster Wheeler Combination Boiler (Ref. No. BLR05).
(Condition 18.h of the 04/21/2020 Permit Document)

h. All continuous monitoring data.

i. Operating procedures, maintenance schedules, training, and service records for the Foster Wheeler Combination Boiler (Ref. No. BLR05).

j. Foster Wheeler Combination Boiler (Ref. No. BLR05) operation information, sufficient to calculate annual emissions for each consecutive 12-month period.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five-(5) years.
(9VAC5-80-110)

39. **Foster Wheeler Combination Boiler Recordkeeping**: See Condition 133 of this permit, for additional recordkeeping requirements for the Foster Wheeler Combination Boiler (Ref. No. BLR05).
(9VAC5-80-110 and 40CFR63 Subpart DDDDD)

TESTING

40. **Foster Wheeler Combination Boiler Testing**: *Condition Completed* Initial performance tests shall be conducted for PM from the ESP stack to determine compliance with the emission limit contained in Condition 29. The tests shall be performed, reported and demonstrate compliance, within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility. Tests shall be conducted and reported and data reduced as set forth in this permit, 9VAC5-50-30 of State Regulations, and the test methods and procedures contained in each applicable section or subpart listed in 9VAC5-50-410. The details of the tests are to be arranged with the Blue Ridge Regional Office. The permittee shall submit a test protocol at least thirty (30) days prior to testing. One copy of the test results shall be submitted to the Blue Ridge Regional Office in accordance with the schedule specified above or within 45 days after test completion, whichever is earlier, and shall conform to the test report format enclosed with this permit.
(9VAC5-80-110, 40CFR6046.b, and Condition 11 of 04/21/2020 Permit Document)

41. **Foster Wheeler Combination Boiler Testing**: *Condition Completed* Concurrently with the initial performance tests, Visible Emission Evaluations (VEE) in accordance with 40 CFR, Part 60, Appendix A, Method 9 shall also be conducted by the permittee on the Foster Wheeler Combination Boiler (Ref. No.BLR 05) stack. Each test shall consist of thirty (30) sets of twenty-four (24) consecutive observations (at fifteen (15) second intervals) to yield a six (6) minute average. Details of the test shall be arranged with the Blue Ridge Regional Office. The emissions evaluation shall be performed, reported and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility. One copy of the test results shall be submitted to the Blue Ridge Regional Office in accordance with the schedule specified above or within 45 days after test completion, whichever is earlier, and shall conform to the test report format enclosed with this permit. (9VAC5-80-110, 40CFR6046.b, and Condition 12 of 04/21/2020 Permit Document)

42. **Foster Wheeler Combination Boiler Testing**: A continuous opacity monitoring system may be used to satisfy visible emission initial performance compliance in lieu of Test Method 9 if the permittee fulfills the requirements of 40CFR60.11 (e)(5). The reported test data shall include averages of all six (6) minute continuous periods. (9VAC5-80-110, and Condition 13 of 04/21/2020 Permit Document)

43. **Foster Wheeler Combination Boiler Testing**: The Boiler BLR05 stack shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided. (9VAC5-80-110, and Condition 16 of 04/21/2020 Permit Document)

44. **Foster Wheeler Combination Boiler Testing**: Once each permit term, at a frequency not to exceed five years, performance tests shall be performed for particulate matter and PM-10 from the Foster Wheeler Combination Boiler (Ref. No. BLR05), to determine compliance with the emission limits contained in Condition 29. These periodic performance tests shall be performed not later than six months prior to the expiration date of this permit. Tests shall be conducted and reported and data reduced as set forth in 9VAC5-50-30, and the test methods and procedures contained in each applicable section or subpart listed in 9VAC5-50-410. The details of the tests are to be arranged with the Blue Ridge Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. Two copies of the test results shall be submitted to the Blue Ridge Regional Office within 60 days after test completion and shall conform to the test report format enclosed with this permit. (9VAC5-50-30, 9VAC5-50-410, and 9VAC5-80-110 E).

45. **Foster Wheeler Combination Boiler Testing**: See Condition 132 of this permit, for additional testing requirements for the Foster Wheeler Combination Boiler (Ref. No. BLR05).
(9VAC5-80-110 and 40CFR63 Subpart DDDDD)

REPORTING

46. **Foster Wheeler Combination Boiler Reporting**: The permittee shall submit a report of monitored excess emissions and monitor performance semiannually. The reports are to be submitted, postmarked no later than 30 calendar days after the end of each semiannual period, to the Blue Ridge Regional Office. The details and format of the report are to be arranged with the Blue Ridge Regional Office prior to the submission of the first report. (9VAC5-80-110, and Condition 14 of 04/21/2020 Permit Document)

47. **Foster Wheeler Combination Boiler Reporting:** *Condition Completed* The permittee shall furnish written notification to the Blue Ridge Regional Office of:

    a. The actual date on which modification of the Foster Wheeler Combination Boiler (Ref. No. BLR05) commenced within 30 days after such date.

    b. The actual start-up date of the Foster Wheeler Combination Boiler (Ref. No. BLR05) as modified within 15 days after such date.

    c. The intention to use continuous opacity monitoring system data results to demonstrate compliance with the applicable visible emission limit during a performance test in lieu of Reference Method 9 (reference 40 CFR Part 60, Appendix A), postmarked not less than 30 days prior to the date of the performance test.

    d. The anticipated date of performance tests of the boiler BLR05 as modified postmarked at least 30 days prior to such date.

    e. Copies of the written notification referenced in item (a) through (c) above are to be sent to:

        Associate Director
        Office of Air Enforcement and Compliance Assistance (3AP20)
        U.S. Environmental Protection Agency
        Region III
        1650 Arch Street
        Philadelphia, PA 19103-2029

    (9VAC5-80-110, and Condition 17 of 04/21/2020 Permit Document)

48. **Foster Wheeler Combination Boiler Reporting:** The permittee shall submit written reports in accordance with Condition 146.
(9VAC5-80-110 F)

49. **Foster Wheeler Combination Boiler Reporting**: See Condition 134 of this permit, for additional reporting requirements for the Foster Wheeler Combination Boiler (Ref. No. BLR05).
(9VAC5-80-110 and 40CFR63 Subpart DDDDD)

Process Equipment Requirements

Woodyard Equipment Requirements

For the following listed applicable requirement types, there are no unit specific requirements for the Woodyard Equipment (Ref. No. WDY01): **Testing, Monitoring, Reporting**, or **Recordkeeping.**

LIMITATIONS

50. **Woodyard Equipment Limitations**: During the construction, modification, or operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

    a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

    b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

    c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;

    d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,

e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9VAC5-50-90)

Unbleached Pulp Mill Equipment Requirements

The Unbleached Pulp Mill equipment includes, but is not limited to, the Digester System (Ref. No. UPM01), #1 Brownstock Washer (Ref. No. UPM03), #2 Brownstock Washer (Ref. No. UPM04), #3 Brownstock Washer (Ref. No. UPM05), and Combined Condensate Tank (Ref. No. UPM07)

LIMITATIONS

51. **Unbleached Pulp Mill Equipment Limitations**: The permittee shall control the total HAP emissions from the Low Volume, High Concentration system. The Low Volume, High Concentration (LVHC) system means the collection of equipment including the digester and evaporator systems, and any other equipment serving the same function as those previously listed. For the purposes of this permit, the LVHC system includes, but is not limited to, the M&D Digestor system (UPM01), the Combined Condensate Tank (WPM07), the Evaporator Vacuum Pump (CR04) and the Ultra High Solid Crystallizer (CR04A). See Conditions 105 through 111 of this permit, for specific limitations for the LVHC system.
(9VAC5-80-110 and 40CFR63 Subpart S)

52. **Unbleached Pulp Mill Equipment Limitations**: Visible emissions from the Unbleached Pulp Mill Equipment shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity.
(9VAC5-50-80 and 9VAC5-80-110)

53. **Unbleached Pulp Mill Equipment Limitations**: The throughput of semi-chemical virgin pulp through the pulp washers (Ref. Nos. UPM03, UPM04, and UPM05) shall not exceed 227,760 oven dry tons per year, calculated monthly as the sum of each consecutive 12-month period.
(9VAC5-80-110 and Condition 3 of 5/30/03 Permit Document)

MONITORING

54. **Unbleached Pulp Mill Equipment Monitoring**: At least one time per calendar week, an observation for the presence of visible emissions from the Unbleached Pulp Mill Equipment shall be made. If visible emissions are observed, the permittee shall:

    a. take timely corrective action such that the equipment resumes operation with no visible emissions, or,

b. perform a visible emission evaluation (VEE) in accordance with 40CFR60, Appendix A, Method 9 to assure visible emissions from the equipment do not exceed 20 percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the 15-second-interval observations exceed 20 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions of 20 percent or less.

The permittee shall maintain an equipment log to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, whether or not there were visible emissions, any VEE recordings and any necessary corrective action. If the equipment has not been operated during the week, it shall be noted in the equipment log that the equipment was not operated and that a visual observation was not required.
(9VAC5-80-110 E)

55. **Unbleached Pulp Mill Equipment Monitoring**: See Conditions 112 through 113 of this permit, for additional monitoring requirements for the LVHC system.
(9VAC5-80-110 and 40CFR63 Subpart S)

RECORDKEEPING

56. **Unbleached Pulp Mill Equipment Recordkeeping**: The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

a. Visual emission log for the Unbleached Pulp Mill Equipment.

b. Records of malfunctions of equipment which may cause a violation of any part of this permit.

c. Unbleached Pulp Mill equipment operation information, sufficient to calculate annual emissions for each consecutive 12-month period.

d. The annual throughput of semi-chemical virgin pulp through the pulp washers (Ref. Nos. UPM03, UPM04, and UPM05) in units of oven dry tons, calculated monthly as the sum of each consecutive 12-month period.
(Condition 7 of 5/30/03 Permit Document)

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five-(5) years.
(9VAC5-50-50 and 9VAC5-80-110)

57. **Unbleached Pulp Mill Equipment Recordkeeping**: See Conditions 114 through 116 of this permit, for additional recordkeeping requirements for the LVHC system. (9VAC5-80-110 and 40CFR63 Subpart S)

TESTING

58. **Unbleached Pulp Mill Equipment Testing**: The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time using appropriate methods. Test ports shall be provided when requested at the appropriate locations. (9VAC5-50-30 and 9VAC5-80-110)

59. **Unbleached Pulp Mill Equipment Testing**: See Conditions 112 and 113 of this permit, for additional testing requirements for the LVHC system. (9VAC5-80-110 and 40CFR63 Subpart S)

REPORTING

60. **Unbleached Pulp Mill Equipment Reporting**: The permittee shall submit written reports in accordance with General Conditions 146 through 148. (9VAC5-80-110 F)

61. **Unbleached Pulp Mill Equipment – Reporting:** See Conditions 117 and 118 of this permit, for additional reporting requirements for the LVHC system. (9VAC5-80-110 and 40CFR63 Subpart S)

Chemical Recovery Equipment Requirements

The Chemical Recovery Equipment includes, but is not limited to, the #1 and #2 Weak Liquor Storage Tanks (Ref. No. CR01), the Heavy Black Liquor Storage Tank (Ref. No. CR03), the Evaporator Vacuum Pump (Ref. No. CR04), the Ultra High Solids Crystallizer (CR04A), the B&W Recovery Boiler (Ref. No. CR05), and the Smelt Dissolving Tank (Ref. No. CR06)

LIMITATIONS

62. **Chemical Recovery Equipment Limitations**: The permittee shall control the gaseous organic HAP emissions from the semichemical combustion unit. For the purposes of this permit, the semichemical combustion unit is the B&W Recovery Boiler (Ref. No. CR05). See Conditions 119 through 121 of this permit, for specific limitations for the semichemical combustion unit. (9VAC5-80-110 and 40CFR63 Subpart MM)

63. **Chemical Recovery Equipment Limitations**: Particulate emissions from the B&W Recovery Boiler (Ref. No. CR05) shall be controlled by an electrostatic precipitator. The electrostatic precipitator shall be provided with adequate access for inspection. (9VAC5-80-110)

64. **Chemical Recovery Equipment Limitations**: Visible emissions from the Chemical Recovery Equipment, with the exception of the B&W Recovery Boiler (Ref. No. CR05), shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity.
(9VAC5-50-80 and 9VAC5-80-110)

65. **Chemical Recovery Equipment Limitations**: Visible emissions from the B&W Recovery Boiler (Ref. No. CR05) shall not exceed 35% opacity.
(9VAC5-40-1710 and 9VAC5-80-110)

66. **Chemical Recovery Equipment Limitations**: Emissions from the operation of the B&W Recovery Boiler (Ref. No. CR05) shall not exceed the limits specified below:

Particulate Matter	3.00 lbs/equivalent ton of air dried pulp
Total hydrocarbons as carbon	See Condition 121

(9VAC5-80-110, 9VAC5-40-1680, and 40CFR63.862(c)(2))

67. **Chemical Recovery Equipment Limitations**: Emissions from the operation of the Smelt Dissolving Tank (Ref. No. CR06) shall not exceed the limits specified below:

Particulate Matter	0.75 lbs/equivalent ton of air dried pulp

(9VAC5-80-110 and 9VAC5-40-1680)

68. **Chemical Recovery Equipment Limitations:** Emissions from the B&W Recovery Boiler (Ref. No. CR05) shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.
(9VAC5-80-110)

69. **Chemical Recovery Equipment Limitations:** If the number of excursions exceeds 5 percent of the operating time for the B&W Recovery Boiler (Ref. No. CR05,) the permittee shall develop a Quality Improvement Plan (QIP) according to 40CFR64.8. An excursion shall be defined as the dropping of the power (P) to the ESP below the minimum power input range shown in Attachment A. Semi-annual periods are as indicated by reporting requirements in Condition 148.
(9VAC5-5-80-110 and 40CFR64.8)

MONITORING

70. **Chemical Recovery Equipment Monitoring**: At least one time per calendar week, an observation for the presence of visible emissions from the Chemical Recovery Equipment, with the exception of the B&W Recovery Boiler (Ref. No. CR05), shall be made. If visible emissions are observed, the permittee shall:

    a. take timely corrective action such that the equipment resumes operation with no visible emissions, or,

    b. perform a visible emission evaluation (VEE) in accordance with 40CFR60, Appendix A, Method 9 to assure visible emissions from the equipment do not exceed 20 percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the 15-second-interval observations exceed 20 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions of 20 percent or less.

    The permittee shall maintain an equipment log to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, whether or not there were visible emissions, any VEE recordings and any necessary corrective action. If the equipment has not been operated during the week, it shall be noted in the equipment log that the equipment was not operated and that a visual observation was not required.
    (9VAC5-80-110 E)

71. **Chemical Recovery Equipment Monitoring**: At least one time per calendar week, an observation for the presence of visible emissions from the B&W Recovery Boiler stack (Ref. No. CR05) shall be made. If visible emissions are observed the permittee shall:

    a. take timely corrective action such that the boiler resumes operation with no visible emissions, or,

    b. perform a visible emission evaluation (VEE) in accordance with 40CFR60, Appendix A, Method 9 to assure visible emissions from the boiler stack do not exceed 35 percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the 15-second-interval observations exceed 35 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the boiler resumes operation with visible emissions of 35 percent or less.

    The permittee shall maintain a boiler log to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, whether or not there were visible emissions, any VEE recordings and any necessary corrective action.

If the boiler has not been operated during the week, it shall be noted in the boiler log that the boiler was not operated and that a visual observation was not required.
(9VAC5-80-110 E)

72. **Chemical Recovery Equipment Monitoring**: See Conditions 122 and 123 of this permit, for additional monitoring requirements for the semichemical combustion unit (Ref. No. CR05).
(9VAC5-80-110 and 40CFR63 Subpart MM)

73. **Chemical Recovery Equipment Monitoring**: For the electrostatic precipitator (CRCD05), the permittee shall conduct monitoring as specified in the Compliance Assurance Monitoring (CAM) Plan (Attachment A).
(9VAC5-80-110 and 40CFR64.6(c))

RECORDKEEPING

74. **Chemical Recovery Equipment Recordkeeping**: The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

    a. Visual emission log for the Chemical Recovery Equipment, with the exception of the B&W Recovery Boiler (Ref. No. CR05).

    b. Visual emission log for the B&W Recovery Boiler (Ref. No. CR05).

    c. Records of malfunctions of equipment which may cause a violation of any part of this permit.

    d. Chemical Recovery equipment operation information, sufficient to calculate annual emissions for each consecutive 12-month period.

    These records shall be available on site for inspection by the DEQ and shall be current for the most recent five-(5) years.
    (9VAC5-50-50 and 9VAC5-80-110)

75. **Chemical Recovery Equipment Recordkeeping**: The permittee shall have available good written operating procedures and a maintenance schedule for the B&W Recovery Boiler (Ref. No. CR05). These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.
(9VAC5-80-110)

76. **Chemical Recovery Equipment Recordkeeping**: See Conditions 125 through 127 of this permit, for additional recordkeeping requirements for the semichemical combustion unit (Ref. No. CR05).
(9VAC5-80-110 and 40CFR63 Subpart MM)

77. **Chemical Recovery Equipment Recordkeeping**: The permittee shall maintain documentation of monitoring required by the CAM Plan (Attachment A), to include:

    a. Documentation including the date and time of the observations, and the total power (one hour average) to the ESP;

    b. The number of excursions in each semi-annual period;

    c. The corrective action taken in response to each excursion; and

    d. If applicable, any written QIP required by Condition 69 and 40CFR64.8 and any activities undertaken to implement a QIP

    These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
    (9VAC5-80-110)

TESTING

78. **Chemical Recovery Equipment Testing**: The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time using appropriate methods. Test ports shall be provided when requested at the appropriate locations.
(9VAC5-50-30 and 9VAC5-80-110)

79. **Chemical Recovery Equipment Testing**: See Condition 124 of this permit, for additional testing requirements for the semichemical combustion unit (Ref. No. CR05).
(9VAC5-80-110 and 40CFR63 Subpart MM)

REPORTING

80. **Chemical Recovery Equipment Reporting**: The permittee shall submit written reports in accordance with General Condition 146.
(9VAC5-80-110 F)

81. **Chemical Recovery Equipment Reporting**: See Conditions 128 and 129 of this permit, for additional reporting requirements for the semichemical combustion unit (Ref. No. CR05).
(9VAC5-80-110 and 40CFR63 Subpart MM)

82. **Chemical Recovery Equipment Reporting**: The permittee shall submit written reports containing the following information pertaining to the CAM Plan for the electrostatic precipitator (CRCD05) to the Blue Ridge Region no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

    a. Summary information on the number, duration, and cause (including unknown cause, if applicable) of excursions and the corrective action taken;

    b. A description of actions taken to implement a QIP during the reporting period as specified 40CFR64.8. Upon implementation of a QIP, the permittee shall include in the next summary report documentation that the plan has been completed and reduced the likelihood of similar levels of excursions.

    The information listed above may be included in the reports required by Condition 148. (9VAC5-80-110 and 40CFR64.9(a)(2))

#1 Paper Machine Equipment Requirements

The #1 Paper Machine equipment includes, but is not limited to, the #1 Paper Machine HD Storage Tank (Ref. No. PM01), the #1 Paper Machine Wet End (Ref. No. PM02), and the #1 Paper Machine Dry End (Ref. No. PM03)

LIMITATIONS

83. **#1 Paper Machine Emission Controls**: Volatile Organic Compound (VOC) emissions from the #1 Paper Machine (PM02) shall be controlled by proper operation and maintenance. Operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum. The permittee shall develop, maintain, and have available to all operators good written operating procedures and a maintenance schedule for the dryer. These procedures shall be based on the manufacturer's recommendations, at minimum. A maintenance schedule for all such equipment shall be established and made available to the Department of Environmental Quality (DEQ), for review. All records required by this condition shall be kept onsite for the most current five year period and made available for inspection by the DEQ.
    (9VAC5-80-110, 9VAC5-50-260 and Condition 2 of 10/23/14 Permit Document)

84. **#1 Paper Machine Equipment Limitations**: The production of paper by the #1 Paper Machine (Ref. No. PM02) shall not exceed 414,275 air-dried tons of finished paper (ADTFP) per year, calculated monthly as the sum of each consecutive 12-month period. (9VAC5-80-110, and Condition 3 of 10/23/14 Permit Document)

85. **#1 Paper Machine Equipment Limitations**: Visible emissions from the #1 Paper Machine Equipment (Ref. No. PM02) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity. (9VAC5-50-80 and 9VAC5-80-110)

86. **#1 Paper Machine Equipment Limitations**: Emissions from the operation of the #1 Paper Machine (Ref. No. PM02) shall not exceed the limits specified below:

Volatile Organic Compounds	78.6 tons/yr

(9VAC5-80-110, 9VAC5-50-260 and Condition 4 of 10/23/14 Permit Document)

MONITORING

87. **#1 Paper Machine Equipment Monitoring**: At least one time per calendar week, an observation for the presence of visible emissions from the #1 Paper Machine Equipment shall be made. If visible emissions are observed, the permittee shall:

    a. take timely corrective action such that the equipment resumes operation with no visible emissions, or,

    b. perform a visible emission evaluation (VEE) in accordance with 40CFR60, Appendix A, Method 9 to assure visible emissions from the equipment do not exceed 20 percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the 15-second-interval observations exceed 20 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions of 20 percent or less.

    The permittee shall maintain an equipment log to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, whether or not there were visible emissions, any VEE recordings and any necessary corrective action. If the equipment has not been operated during the week, it shall be noted in the equipment log that the equipment was not operated and that a visual observation was not required.
    (9VAC5-80-110 E)

RECORDKEEPING

88. **#1 Paper Machine Equipment Recordkeeping**: The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

a. Visual emission log for the #1 Paper Machine Equipment.

b. Records of malfunctions of equipment which may cause a violation of any part of this permit.

c. Annual production of paper from the #1 Paper Machine (PM02), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

d. Monthly emissions calculations for VOCs from the #1 Paper Machine (PM02) using calculation methods approved by the Blue Ridge Regional Office to verify compliance with the annual ton/yr emissions limitations in Condition 86. Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

e. Scheduled and unscheduled maintenance and operator training records.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five-(5) years.
(9VAC5-50-50, 9VAC5-80-110 and Condition 5 of the 10/23/14 Permit Document)

TESTING

89. **#1 Paper Machine Equipment Testing**: The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time using appropriate methods. Test ports shall be provided when requested at the appropriate locations.
(9VAC5-50-30 and 9VAC5-80-110)

REPORTING

90. **#1 Paper Machine Equipment Reporting**: The permittee shall submit written reports in accordance with General Condition 148.
(9VAC5-80-110 F)

#2 Paper Machine Equipment Requirements

LIMITATIONS

91. **#2 Paper Machine Equipment Limitations**: The production of paper by the #2 Paper Machine (Ref. No. PM04) shall not exceed 390,550 tons per year, calculated monthly as the sum of each consecutive 12-month period.
(9VAC5-80-110, and Condition 3 of 5/12/92 Permit Document, as amended 10/5/94 and 2/22/95)

92. **#2 Paper Machine Equipment Limitations**: Visible emissions from the #2 Paper Machine Equipment (Ref. No. PM04) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity.
(9VAC5-50-80 and 9VAC5-80-110)

93. **#2 Paper Machine Equipment Limitations**: Emissions from the operation of the #2 Paper Machine (Ref. No. PM04) shall not exceed the limits specified below:

Volatile Organic Compounds	11.33 lbs/hr	38.0 tons/yr

(9VAC5-80-110, and Condition 4 of 5/12/92 Permit Document, as amended 10/5/94 and 2/22/95)

MONITORING

94. **#2 Paper Machine Equipment Monitoring**: At least one time per calendar week, an observation for the presence of visible emissions from the #2 Paper Machine Equipment shall be made. If visible emissions are observed, the permittee shall:

    a. take timely corrective action such that the equipment resumes operation with no visible emissions, or,

    b. perform a visible emission evaluation (VEE) in accordance with 40CFR60, Appendix A, Method 9 to assure visible emissions from the equipment do not exceed 20 percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the 15-second-interval observations exceed 20 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the boiler resumes operation with visible emissions of 20 percent or less.

    The permittee shall maintain an equipment log to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, whether or not there were visible emissions, any VEE recordings and any necessary corrective action. If the equipment has not been operated during the week, it shall be noted

in the equipment log that the equipment was not operated and that a visual observation was not required.
(9VAC5-80-110 E)

RECORDKEEPING

95. **#2 Paper Machine Equipment Recordkeeping**: The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

    a. Visual emission log for the #2 Paper Machine Equipment.

    b. Records of malfunctions of equipment which may cause a violation of any part of this permit.

    c. The yearly production of paper by the #2 Paper Machine, calculated monthly as the sum of each consecutive 12-month period.

    d. An annual material balance including the throughput and emissions of VOCs from the #2 Paper Machine. Throughput and emissions shall be calculated monthly as the sum of each consecutive 12-month period.

    e. #2 Paper Machine equipment operation information, sufficient to calculate annual emissions for each consecutive 12-month period.

    These records shall be available on site for inspection by the DEQ and shall be current for the most recent five-(5) years.
    (9VAC5-80-110 and Condition 6 of 5/12/92 Permit Document, as amended 10/5/94 and 2/22/95)

TESTING

96. **#2 Paper Machine Equipment Testing**: The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time using appropriate methods. Test ports shall be provided when requested at the appropriate locations.
    (9VAC5-50-30 and 9VAC5-80-110)

REPORTING

97. **#2 Paper Machine Equipment Reporting**: The permittee shall submit written reports in accordance with General Condition 148.
    (9VAC5-80-110 F)

MACT Requirements for Startup, Shutdown, and Malfunction Plan

98. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall operate and maintain any affected facility under the provisions 40CFR63 Subpart S, 40CFR63 Subpart MM, and 40CFR63 Subpart DDDDD including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions at least to the levels required by this permit and the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution.

    a. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the startup, shutdown, and malfunction plan required in Condition 99.

    b. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Blue Ridge Regional Office, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures (including the startup, shutdown, and malfunction plan required in Condition 99), review of operation and maintenance records, and inspection of the source.

    (9VAC5-80-110, 40CFR63.6(e)(1), 40CFR63.6(e)(2))

99. The permittee shall develop and implement a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the provisions of 40CFR63 Subpart S, 40CFR63 Subpart MM, and 40CFR63 Subpart DDDDD. The plan shall be incorporated by reference into the permittee's Title V permit. (See Condition 100.) The purpose of the startup, shutdown, and malfunction plan is to:

    a. Ensure that, at all times, the permittee operates and maintains affected sources, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by the provisions 40CFR63 Subpart S, 40CFR63 Subpart MM, and 40CFR63 Subpart DDDDD;

    b. Ensure that the permittee is prepared to correct malfunctions as soon as practicable after their occurrence in order to minimize excess emissions of hazardous air pollutants; and

    c. Reduce the reporting burden associated with periods of startup, shutdown, and malfunction (including corrective action taken to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation).

    (9VAC5-80-110 and 40CFR63.6(e)(3))

100. During periods of startup, shutdown, and malfunction, the owner or operator of an affected source shall operate and maintain such source (including associated air pollution control equipment) in accordance with the procedures specified in the startup, shutdown, and malfunction plan developed under Condition 99.
(9VAC5-80-110 and 40CFR63.6(e)(3)(ii))

101. When actions taken by the permittee during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the permittee shall keep records for that event that demonstrate that the procedures specified in the plan were followed. These records may take the form of a checklist, or other effective form of recordkeeping, that confirms conformance with the startup, shutdown, and malfunction plan for that event. In addition, the owner or operator shall keep records of these events as specified in 40CFR63.10(b), including records of the occurrence and duration of each startup, shutdown, or malfunction of operation and each malfunction of the air pollution control equipment. Furthermore, the owner or operator shall confirm that actions taken during the relevant reporting period during periods of startup, shutdown, and malfunction were consistent with the affected source's startup, shutdown and malfunction plan in the semiannual report required in Condition 148.
(9VAC5-80-110 and 40CFR63.6 (e)(3)(iii)

102. If an action taken by the permittee during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the permittee shall record the actions taken for that event and shall report such actions as specified in 40CFR63.6 (e)(3)(iv).
(9VAC5-80-110 and 40CFR63.6 (e)(3)(iv)

103. The Blue Ridge Regional Office may require that the permittee make changes to the startup, shutdown, and malfunction plan if the plan:

    a. Does not address a startup, shutdown, or malfunction event that has occurred;

    b. Fails to provide for the operation of the source (including associated air pollution control equipment) during a startup, shutdown, or malfunction event in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this permit; or

    c. Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control equipment as quickly as practicable.

    (9VAC5-80-110 and 40CFR63.6(e)(3)(vii))

104. If the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the startup, shutdown, and malfunction plan at the time the permittee developed the plan, the permittee shall revise the startup, shutdown, and malfunction plan within 45 days after the event to include detailed procedures for operating and maintaining the source during similar malfunction events and a program of corrective action for similar malfunctions of process or air pollution control equipment.
(9VAC5-80-110 and 40CFR63.6(e)(3)(viii))

MACT I (40CFR63 Subpart S) Requirements

MACT I Limitations

105. For the purposes of this section of this permit, all terms used herein shall have the meaning given them in 40CFR63 Subpart A and 40CFR63 Subpart S.
(9VAC5-80-110 and 40CFR63.441)

106. Unless otherwise required in this permit, the permittee shall comply with the requirements of 40 CFR Part 63 Subpart A, General Provisions, as indicated in 40 CFR Part 63 Subpart S, Table 1, General Provisions Applicability to Subpart S.
(9VAC5-80-110 and 40CFR63.440(g))

107. The permittee shall control the total HAP emissions from the Low Volume, High Concentration system as specified in Conditions 108 and 109. The definition of the Low Volume, High Concentration system (LVHC) is shown in Condition 51.
(9VAC5-80-110, 40 CCR 63.441, and 40CFR63.443(b))

108. The LVHC equipment systems shall be enclosed and vented into a closed-vent system and routed to a control device that meets the control requirements specified in Condition 109. The enclosures and closed-vent system shall meet the design requirements specified in Condition 111.
(9VAC5-80-110, and 40CFR63.443(c))

109. The control device used to reduce total HAP emissions from the LVHC system shall use one of the following:

    a. a boiler by introducing the HAP emission stream with the primary fuel or into the flame zone; or

    b. a boiler with a heat input capacity greater than or equal to 150 million British thermal units per hour by introducing the HAP emission stream with the combustion air.

    (9VAC5-80-110, and 40CFR63.443(d))

110. Periods of excess emissions reported under Condition 146 shall not be a violation of Condition 107 provided that the time of excess emissions (excluding periods of startup, shutdown, or malfunction as specified under Conditions 98-104 divided by the total process operating time in a semi-annual reporting period does not exceed one percent. (9VAC5-80-110 and 40CFR63.443(e))

111. Each enclosure and closed-vent system specified in Condition 108 for capturing and transporting vent streams that contain HAP shall meet the design requirements specified in paragraphs (b) through (d) of 40CFR63.450. (9VAC5-80-110 and 40CFR63.450(a))

MACT I Monitoring and Testing

112. Each enclosure or closed-vent system specified in Condition 108 shall comply with the following requirements specified in 40CFR63.453(k)(1) through 40CFR63.453(k)(6):

    a. 30-day visual inspections, specified in 40CFR63.453(k)(1), 40CFR63.453(k)(2), and 40CFR63.453(k)(5),
    b. initial and annual positive pressure section testing, specified in 40CFR63.453(k)(3), performed in accordance with the test methods and procedures specified in 40CFR63.457 (d),
    c. initial and annual negative pressure section testing, specified in 40CFR63.453(k)(4), performed in accordance with the test methods and procedures specified 40CFR63.457(e), and
    d. corrective actions, specified in 40CFR63.453(k)(6).

    (9VAC5-80-110 and 40CFR63.453)

113. The permittee shall control emissions from the LVHC system as specified in Condition 107. Except as provided in Condition 110, failure to perform procedures required by Conditions 105 through 112 of this permit shall constitute a violation of the emission standard and be reported as a period of excess emissions. (9VAC5-80-110 and 40CFR63.453(o))

MACT I Recordkeeping

114. The permittee shall comply with the recordkeeping requirements of 40CFR63.10 of 40CFR63 Subpart A, as shown in 40CFR63 Subpart S, Table 1, General Provisions Applicability to Subpart S, and the requirements specified in Conditions 115 and 116 for the monitoring parameters specified in Conditions 112 and 113 of this permit. (9VAC5-80-110 and 40CFR63.454(a))

115. For each applicable enclosure opening, closed-vent system, and closed collection system specified in Condition 108, the permittee shall prepare and maintain a site-specific inspection plan including a drawing or schematic of the components of applicable affected equipment and shall record the information listed in 40CFR63.454(b)(1) through 40CFR63.454(b)(12) for each inspection.
(9VAC5-80-110 and 40CFR63.454(b))

116. The permittee shall meet the requirements specified in Condition 114 for any new affected process equipment or pulping process condensate stream that becomes subject to the standards in 40CFR63, Subpart S due to a process change or modification.
(9VAC5-80-110 and 40CFR63.454(d))

MACT I Reporting

117. The permittee shall comply with the reporting requirements of 40 CFR Part 63 Subpart A as specified in 40 CFR Part 63 Subpart S, Table 1, General Provisions and Applicability to Subpart S and all of the requirements specified in Condition 118 of this permit.
(9VAC5-80-110 and 40CFR63.455(a))

118. The permittee shall meet the requirements specified in Condition 117 upon startup of any new affected process equipment or pulping process condensate stream that becomes subject to the standards in this 40CFR63, Subpart S due to a process change or modification.
(9VAC5-80-110 and 40CFR63.455(d))

MACT II (40CFR63 Subpart MM) Requirements

MACT II Limitations

119. For the purposes of this section of this permit, all terms used herein shall have the meaning given them in 40CFR63 Subpart A and 40CFR63 Subpart MM.
(9VAC5-80-110 and 40CFR63.861)

120. Unless otherwise required in this permit, the permittee shall comply with the requirements of 40 CFR Part 63 Subpart A, General Provisions, as indicated in 40 CFR Part 63 Subpart MM, Table 1, General Provisions Applicability to Subpart MM.
(9VAC5-80-110 and 40CFR63.860(c))

121. The permittee must ensure that:

    a. The concentration of gaseous organic HAP, as measured by total hydrocarbons reported as carbon, discharged to the atmosphere from the semichemical combustion unit is less than or equal to 2.97 lb/ton of black liquor solids fired; or

b. The gaseous organic HAP emissions from the semichemical combustion unit, as measured by total hydrocarbons reported as carbon, are reduced by at least 90 percent prior to discharge of the gases to the atmosphere.

Semichemical combustion unit means any equipment used to combust or pyrolyze black liquor at stand-alone semichemical pulp mills for the purpose of chemical recovery. For the purposes of this permit, the semichemical combustion unit is the B&W Recovery Boiler (Ref. No. CR05).

(9VAC5-80-110, 40CFR63.862(c)(2), and 40CFR63.861)

MACT II Monitoring

122. The permittee must monitor the parameters as approved by the Administrator or his/her delegate using the methods and procedures in Condition 123.
(9VAC5-80-110 and 40CFR63.864(e)(14))

123. The permittee shall directly monitor emissions in accordance with the "Site Specific Monitoring Plan for the Recovery Combustion Unit, Continuous Emission Monitoring System – Riverville Mill, Revision 0" dated March 8, 2004 and submitted to DEQ on March 10, 2004. In the event of subsequent changes to this plan, the permittee shall submit a copy of the change to DEQ for review, and record the date of the submittal and the nature of the change in a logbook kept permanently onsite. The permittee shall operate in accordance with the most recent plan (based on postmark date of the submittal).
(9VAC5-80-110, 40CFR63.864(e)(14), and 40CFR63.8(f))

MACT II Testing

124. On-going compliance provisions.

a. The permittee is required to implement corrective action, as specified in the startup, shutdown, and malfunction plan prepared under Conditions 98 through 104 of this permit when any 3-hour average value exceeds the value in Condition 121.
(9VAC5-80-110 and 40CFR63.864 (k)(1)(vi))

b. The permittee is in violation of the standards of Condition 121 if the following monitoring exceedance occurs:

when six or more 3-hour average values within any 6-month reporting period exceed the value in Condition 121.

(9VAC5-80-110 and 40CFR63.864 (k)(2)(vii))

c. For purposes of determining the number of nonopacity monitoring exceedances, no more than one exceedance will be attributed in any given 24-hour period.

(9VAC5-80-110 and 40CFR63.864 (k)(3))

MACT II Recordkeeping

125. Startup, shutdown, and malfunction plan. The permittee must develop and implement a written plan as described in Conditions 98 through 104 of this permit that contains specific procedures to be followed for operating the source and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and control systems used to comply with the standards. In addition to the information required in Conditions 98 through 104 of this permit, the plan must include the following requirements:

    a. Procedures for responding to any process parameter level that is inconsistent with the level(s) established under Condition 124, including the following procedures:

        i. Procedures to determine and record the cause of an operating parameter exceedance and the time the exceedance began and ended; and

        ii. Corrective actions to be taken in the event of an operating parameter exceedance, including procedures for recording the actions taken to correct the exceedance.

    b. The following schedules:

        i. A maintenance schedule for each control technique that is consistent with, but not limited to, the manufacturer's instructions and recommendations for routine and long-term maintenance; and

        ii. An inspection schedule for each continuous monitoring system required under Condition 122 to ensure, at least once in each 24-hour period, that each continuous monitoring system is properly functioning.

    (9VAC5-80-110 and 40CFR63.866(a))

126. The permittee must maintain records of any occurrence when corrective action is required under Condition 124.a, and when a violation is noted under Condition 124.b. (9VAC5-80-110 and 40CFR63.866(b))

127. In addition to the general records required by 40CFR63.10(b)(2), the permittee must maintain records of the following information

    a. Records of black liquor solids firing rates in units of tons/day;

    b. Records of monitoring data required under Conditions 122 and 123 of this permit, including a brief explanation of the cause of any deviation, the time the deviation

occurred, the time corrective action was initiated and completed, and the corrective action taken; and

c. Records and documentation of supporting calculations for compliance determinations made under Condition 124.

(9VAC5-80-110 and 40CFR63.866(c))

MACT II Reporting

128. Notifications. The permittee must submit the applicable notifications from 40CFR63 Subpart A, General Provisions, as specified in 40CFR63 Subpart MM, Table 1, General Provisions Applicability to Subpart MM.
(9VAC5-80-110 and 40CFR63.867(a))

129. Excess emissions report. The permittee must report quarterly if measured parameters meet any of the conditions specified in Condition 124.a or Condition 124.b. This report must contain the information specified in 40CFR63.10(c) as well as the number and duration of occurrences when the source met or exceeded the conditions in Condition124.a, and the number and duration of occurrences when the source met or exceeded the conditions in Condition 124.b. Reporting excess emissions below the violation thresholds of Condition 124 does not constitute a violation of the applicable standard.

a. When no exceedances of parameters have occurred, the permittee must submit a semiannual report stating that no excess emissions occurred during the reporting period.

b. (b) The permittee for an affected source or process unit subject to the requirements of 40CFR63 Subpart MM and 40CFR63 Subpart S may combine excess emissions and/or summary reports for the mill.

(9VAC5-80-110 and 40CFR63.867(c))

Boiler MACT (40CFR63 Subpart DDDDD) Requirements

Boiler MACT Limitations

130. Except where this permit is more restrictive, on or before the date specified in 40CFR63.7495 the industrial boilers (Ref. Nos. BLR01, BLR02, BLR03 and BLR05) at the Riverville facility shall comply with the emission limits, and work practice standards of 40CFR63 Subpart DDDDD, the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters.
(9VAC5-80-110 and 40CFR63 Subpart DDDDD)

Boiler MACT Monitoring

131. Except where this permit is more restrictive, on or before the date specified in 40CFR63.7495 the permittee shall meet all monitoring requirements of 40CFR63 Subpart DDDDD applicable to the industrial boilers (Ref. Nos. BLR01, BLR02, BLR03 and BLR05) at the Riverville facility. The monitors shall be maintained and operated in accordance with 40CFR63 Subpart DDDDD.
(9VAC5-80-110 and 40CFR63 Subpart DDDDD)

Boiler MACT Testing

132. The permittee shall conduct all testing required in 40CFR63 Subpart DDDDD.
(9VAC5-80-110, and 40CFR63 Subpart DDDDD)

Boiler MACT Recordkeeping

133. Except where this permit is more restrictive, on or before the date specified in 40CFR63.7495 the permittee in accordance with 40CFR63 Subpart DDDDD, shall record and retain all information necessary to determine that the operation of the industrial boilers (Ref. Nos. BLR01, BLR02, BLR03 and BLR05) at the Riverville facility are in compliance with the 40CFR63 Subpart DDDDD.
(9VAC5-80-110 and 40CFR63 Subpart DDDDD)

Boiler MACT Reporting

134. Except where this permit is more restrictive, on or before the date specified in 40CFR63.7495 the permittee in accordance with 40CFR63 Subpart DDDDD shall meet all applicable reporting requirements for the industrial boilers (Ref. Nos. BLR01, BLR02, BLR03 and BLR05) at the Riverville facility.
(9VAC5-80-110 and 40CFR63 Subpart DDDDD)

Insignificant Emission Units

135. The following emission units at the facility are identified in the application as insignificant emission units under 9VAC5-80-720:

Emission Unit No.	Emission Unit Description	Citation 9VAC5-80-720_	Pollutant(s) Emitted (9VAC5-80-720 B)	Rated Capacity (9VAC5-80-720 C)
BLR07	Boiler Water, Steam and Condensate Treatment Storage Tanks. Cooling towers and corrosion control/biocide tanks raw water biocide tanks	A	----	----
BLR08	Boiler Fuel Oil Storage Tanks (#6 and #2) and additives	B	VOC	----
BLR09	Fly Ash Handling	B	Particulate Matter	----
WDY02	Log Debarking	B	Particulate Matter	----
WDY03	Chipping	B	Particulate Matter	----
WDY04	Screening	B	Particulate Matter	----

WDY05	Fines Handling	B	Particulate Matter	----
WDY06	Roundwood Unloading/Loading	B	Particulate Matter	----
WDY07	Pile Erosion (Chips, Bark and Logs)	B	Particulate Matter	----
WDY08	Chip Transport	B	Particulate Matter	----
WDY09	Bark Hogging	B	Particulate Matter	----
WDY10	Fuel Handling	B	Particulate Matter	----
UPM06	#1 and #2 paper machine bulk chemical storage tanks including: Defoamers, dispersants, cleaners, biocides, wet end additives, dry end additives, wetting agents, retention aids, dyes	B	VOC	----
UPM08	Chip Presteamer	B	VOC	----
CR02	Intermediate Liquor Tank	B	Acetaldehyde, Benzene, MIBK, Toluene, M-, O-, P-Xylene, Styrene, Methanol, VOC	----

Emission Unit No.	**Emission Unit Description**	**Citation 9VAC5-80-720_**	**Pollutant(s) Emitted (9VAC5-80-720 B)**	**Rated Capacity (9VAC5-80-720 C)**
CR06	Precipitator Mix Tank	B	Acetaldehyde, Benzene, Styrene, Methanol, VOC	----
CR07	Green Liquor System (Dregs Washer, Green Liquor Clarifier, and Cooking Liquor Mix Tank)	B	Acetaldehyde, , Benzene, Styrene, Methanol, VOC	----
CR08	Chemical Recovery and Pulp Mill Tank Farm (Phosphoric Acid Storage Tanks, Caustic Storage Tanks and Railcars, Soda Ash Storage Tanks and Railcars, HCl Storage Tank, Neutralizing Tank)	B	----	----
PM05	#1 and #2 Paper Machine Hydraulic Drive System Storage Tanks	B	VOC	----
REC01	OCC Facility	B	VOC	----
WWT02	Wastewater Treatment Chemical Storage Tanks (Polymers, Nutrients and Sodium Hydrochlorite)	B	VOC	----
WWT04	Compost System	B	Particulate Matter	----
MIS01	Rolling Stock Fuel Storage Tanks (Diesel, Unleaded Gas)	B	VOC	----

MIS02	Used Oil Storage Tanks	B	VOC	----
MIS03	Landfill	B	Particulate Matter	----
MIS04	Solvent Based Parts Washer	B	VOC	----

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9VAC5-80-110.

Facility Wide Conditions

136. **New source standard for visible emissions** Unless otherwise specified in this permit, on or after the date on which the performance test required to be conducted by 9VAC5-50-30 is completed, no owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility (constructed, modified or relocated after March 17, 1972, or reconstructed on or after December 10, 1976) any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any one hour of not more than 30% opacity as determined by EPA Method 9 (reference 40CFR60, Appendix A). Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section.
(9VAC5-50-80 and 9VAC5-80-110)

137. **Condition for Granting Permit** – No project shall result in a major modification as defined in 9VAC5-80-1615 without receiving a permit pursuant to 9VAC5-80 Article 8. For projects which rely on projected emissions, not potential to emit, to be exempt from review under 9VAC5-80 Article 8, the following conditions shall apply:

    a. The permittee shall maintain records sufficient to demonstrate the project did not result in a major modification as defined in 9VAC5-80-1615. Any increase in emissions without sufficient documentation to demonstrate it was not caused by a project shall be attributed to that project.

    b. If annual emissions after the project (12-month rolling total) exceed the projected actual emissions for the project, the permittee shall notify the Blue Ridge Regional Office within thirty days (30) days after the event.

    For each applicable project, Conditions 134.a and 134.b are effective for the projection period as prescribed in the definition of "projected actual emissions" located in 9VAC5-80-1615. Nothing in this condition shall restrict when the Board may find the permittee in violation of 9VAC5-80-1625.
    (9VAC5-80-1180 A, Condition 7 of the 10/23/14 Permit Document and Condition 19 of the 04/21/2020 Permit Document)

Permit Shield & Inapplicable Requirements

138. Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
None Identified		

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9VAC5-80-140)

General Conditions

139. **General Conditions - Federal Enforceability** - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9VAC5-80-110)

140. **General Conditions - Permit Expiration** - This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9VAC5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
(9VAC5-80-80, 9VAC5-80-110and 9VAC5-80-170)

141. **General Conditions - Permit Expiration** - The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)

142. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of

Article 1, Part II of 9VAC5 Chapter 80, until the Board takes final action on the application under 9VAC5-80-150.
(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)

143. **General Conditions - Permit Expiration** - No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9VAC5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9VAC5 Chapter 80.
(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)

144. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application under section 9VAC5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9VAC5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)

145. **General Conditions - Permit Expiration** - The protection under subsections F 1 and F 5 (ii) of section 9VAC5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9VAC5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.
(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)

146. **General Conditions - Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

    a. The date, place as defined in the permit, and time of sampling or measurements;

    b. The date(s) analyses were performed;

    c. The company or entity that performed the analyses;

    d. The analytical techniques or methods used;

    e. The results of such analyses; and

    f. The operating conditions existing at the time of sampling or measurement.

    (9VAC5-80-110)

147. **General Conditions - Recordkeeping and Reporting** -Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. (9VAC5-80-110)

148. **General Conditions - Recordkeeping and Reporting** -The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

    a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.

    b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:

        i. Exceedance of emissions limitations or operational restrictions;

        ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,

        iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

    c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

    (9VAC5-80-110)

149. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

a. The time period included in the certification. The time period to be addressed is January 1 to December 31;

b. The identification of each term or condition of the permit that is the basis of the certification;

c. The compliance status;

d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;

e. Consistent with subsection 9VAC5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;

f. Such other facts as the permit may require to determine the compliance status of the source; and

g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov.

(9VAC5-80-110)

150. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Blue Ridge Regional Office, within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition 148 of this permit.
(9VAC5-80-110 F.2)

151. **General Conditions - Failure/Malfunction Reporting -** In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall no later than four daytime business hours after the malfunction is discovered, notify the Blue Ridge Regional Office of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9VAC5-40-50 C and 9VAC5-50-50 C

are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9VAC5-40-40 and 9VAC5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Blue Ridge Regional Office.
(9VAC5-80-110 and 9VAC5-20-180)

152. **General Conditions - Failure/Malfunction Reporting** - The emission units that have continuous monitors subject to 9VAC5-40-50 C and 9VAC5-50-50 C are not subject to the 14 day written notification.
(9VAC5-20-180)

153. **General Conditions - Failure/Malfunction Reporting** - The emission units subject to the reporting and the procedure requirements of 9VAC5-40-50 C and the procedures of 9VAC5-50-50 C are listed below:

Foster Wheeler Combination Boiler (Ref. No. BLR05)

(9VAC5-80-110 and 9VAC5-20-180 C)

154. **General Conditions - Failure/Malfunction Reporting** - Each owner required to install a continuous monitoring system (CMS) or monitoring device subject to 9VAC5-40-41 or 9VAC5-50-410 shall submit a written report of excess emissions (as defined in the applicable subpart in 9VAC5-50-410) to the board semiannaually. All semiannual reports shall be postmarked by the 30th day following the end of each calendar semi-annual period (June 30th and January 30th). All reports shall include the following information:

a. The magnitude of excess emissions computed in accordance with 40CFR60.13(h) or 9VAC5-40-41 B 6, any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;

b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;

c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and

d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.

fAll malfunctions of emission units not subject to 9VAC5-40-50 C and 9VAC5-50-50 C require written reports within 14 days of the discovery of the malfunction.
(9VAC5-80-110, 9VAC5-20-180 C, and 9VAC5-50-50)

155. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9VAC5-80-110)

156. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9VAC5-80-110)

157. **General Conditions - Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9VAC5-80-110)

158. **General Conditions - Permit Modification** -A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9VAC5-80-50, 9VAC5-80-1100, 9VAC5-80-1605, or 9VAC5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9VAC5-80-110, 9VAC5-80-190 and 9VAC5-80-260)

159. **General Conditions - Property Rights** -The permit does not convey any property rights of any sort, or any exclusive privilege.
(9VAC5-80-110)

160. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9VAC5-80-110)

161. **General Conditions - Duty to Submit Information -** Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9VAC5-80-80 G.
(9VAC5-80-110)

162. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit under 9VAC5-80-50 through 9VAC5-80-300 was issued shall pay permit fees consistent with the requirements of 9VAC5-80-310 through 9VAC5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by **April 15** of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9VAC5-80-2340, adjusted annually by the change in the Consumer Price Index.
(9VAC5-80-110, 9VAC5-80-340 and 9VAC5-80-2340)

163. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

    a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

    b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

    c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;

    d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,

    e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

    (9VAC5-50-90 and 9VAC5-80-110)

164. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
(9VAC5-50-20E and 9VAC5-80-110)

165. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9VAC5 Chapter 80, Article 1.
(9VAC5-80-110)

166. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

    a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.

    b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.

    c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.

    d. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

    (9VAC5-80-110)

167. **General Conditions - Reopening For Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to

expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9VAC5-80-80 F. The conditions for reopening a permit are as follows:

a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9VAC5-80-110 D.

(9VAC5-80-110)

168. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request. (9VAC5-80-110 and 9VAC5-80-150)

169. **General Conditions - Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9VAC5-80-130, or from one piece of equipment to another.
(9VAC5-80-110 and 9VAC5-80-160)

170. **General Conditions - Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9VAC5-80-200. (9VAC5-80-110 and 9VAC5-80-160)

171. **General Conditions - Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9VAC5-80-200. (9VAC5-80-110 and 9VAC5-80-160)

172. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9VAC5 Chapter 80 Article 1. The

Board may suspend, under such conditions and for such period of time as the Board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.
(9VAC5-80-110, 9VAC5-80-190 C and 9VAC5-80-260)

173. **General Conditions - Duty to Supplement or Correct Application** -Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9VAC5-80-110 and 9VAC5-80-80 E)

174. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(9VAC5-80-110 and 40 CFR Part 82)

175. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40CFR61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40CFR61.145), Standards for Insulating Materials (40CFR61.148), and Standards for Waste Disposal (40CFR61.150).
(9VAC5-60-70 and 9VAC5-80-110)

176. **General Conditions - Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40CFR68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(9VAC5-80-110 and 40 CFR Part 68)

177. **General Conditions - Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9VAC5-80-110)

178. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

    a. All terms and conditions required under 9VAC5-80-110, except subsection N, shall be included to determine compliance.

b. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.

c. The owner shall meet all applicable requirements including the requirements of 9VAC5-80-50 through 9VAC5-80-300.

(9VAC5-80-110)